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DATE: Friday, March 04, 2005

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<input type="checkbox"/>	L4	L3 with inhibit\$	11
<input type="checkbox"/>	L3	L2 with aspart\$	192
<input type="checkbox"/>	L2	pyruv\$ carboxylase	991

END OF SEARCH HISTORY

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 10 of 11 returned.

1. Document ID: US 20030103935 A1

Using default format because multiple data bases are involved.

L4: Entry 1 of 11

File: PGPB

Jun 5, 2003

PGPUB-DOCUMENT-NUMBER: 20030103935

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030103935 A1

TITLE: Soluble variants of type I membrane proteins, and methods of using them

PUBLICATION-DATE: June 5, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Linnenbach, Alban J.	Philadelphia	PA	US	
Koprowski, Hilary	Wynnewood	PA	US	
Herlyn, Dorothee	Wynnewood	PA	US	

US-CL-CURRENT: 424/85.1; 424/185.1, 424/85.2, 424/85.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw	De
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2. Document ID: US 20030087381 A1

L4: Entry 2 of 11

File: PGPB

May 8, 2003

PGPUB-DOCUMENT-NUMBER: 20030087381

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030087381 A1

TITLE: Metabolically engineered organisms for enhanced production of oxaloacetate-derived biochemicals

PUBLICATION-DATE: May 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gokarn, Ravi R.	Plymouth	MN	US	
Eiteman, Mark A.	Athens	GA	US	
Altman, Elliot	Athens	GA	US	

US-CL-CURRENT: [435/69.1](#); [435/193](#), [435/252.3](#), [435/252.33](#), [435/320.1](#), [536/23.2](#)

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Drawn D](#)

□ 3. Document ID: US 20020177202 A1

L4: Entry 3 of 11

File: PGPB

Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020177202

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020177202 A1

TITLE: Feedback-resistant pyruvate carboxylase gene from corynebacterium

PUBLICATION-DATE: November 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hanke, Paul D.	Aurora	IL	US	

US-CL-CURRENT: [435/189](#); [435/193](#), [435/320.1](#), [435/325](#), [435/69.1](#), [536/23.2](#)

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Drawn D](#)

□ 4. Document ID: US 6645498 B1

L4: Entry 4 of 11

File: USPT

Nov 11, 2003

US-PAT-NO: 6645498

DOCUMENT-IDENTIFIER: US 6645498 B1

TITLE: Soluble variants of type I membrane proteins, and methods of using them

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Drawn D](#)

□ 5. Document ID: US 6455284 B1

L4: Entry 5 of 11

File: USPT

Sep 24, 2002

US-PAT-NO: 6455284

DOCUMENT-IDENTIFIER: US 6455284 B1

TITLE: Metabolically engineered E. coli for enhanced production of oxaloacetate-derived biochemicals

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Drawn D](#)

□ 6. Document ID: US 5766925 A

L4: Entry 6 of 11

File: USPT

Jun 16, 1998

US-PAT-NO: 5766925

DOCUMENT-IDENTIFIER: US 5766925 A

TITLE: Method of producing L-lysine

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KOJC	Drawn D.
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□ 7. Document ID: US 5279942 A

L4: Entry 7 of 11

File: USPT

Jan 18, 1994

US-PAT-NO: 5279942

DOCUMENT-IDENTIFIER: US 5279942 A

TITLE: Detection of pregnancy by identification of the C peptide of relaxin in body fluids of animals

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KOJC	Drawn D.
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□ 8. Document ID: US 5120660 A

L4: Entry 8 of 11

File: USPT

Jun 9, 1992

US-PAT-NO: 5120660

DOCUMENT-IDENTIFIER: US 5120660 A

TITLE: Method for canine fertility detection

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KOJC	Drawn D.
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□ 9. Document ID: US 5089419 A

L4: Entry 9 of 11

File: USPT

Feb 18, 1992

US-PAT-NO: 5089419

DOCUMENT-IDENTIFIER: US 5089419 A

TITLE: Detection of pregnancy by identification of the C peptide of relaxin in the urine of animals

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KOJC	Drawn D.
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□ 10. Document ID: DE 60108144 E, WO 200231158 A2, AU 200213146 A, US 20020177202 A1, EP 1325135 A2, BR 200114532 A, EP 1325135 B1

L4: Entry 10 of 11

File: DWPI

Feb 3, 2005

DERWENT-ACC-NO: 2002-463267

DERWENT-WEEK: 200510

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TITLE: Novel mutated, feedback resistant pyruvate carboxylase enzyme polypeptide, useful for producing amino acids e.g. L-lysine, L-threonine, L-glycine, L-glutamic acid, L-proline and L-methionine and L-isoleucine

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Terms	Documents
L3 with inhibit\$	11

Display Format: [-] [Change Format](#)

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

Hit List

Clear**Generate Collection****Print****Fwd Refs****Bkwd Refs****Generate OACIS**

Search Results - Record(s) 11 through 11 of 11 returned.

11. Document ID: PH 1199448842 B1, WO 9506114 A1, AU 9480991 A, JP 07111890 A, JP 08070860 A, CZ 9600524 A3, EP 723011 A1, SK 9600204 A3, BR 9407625 A, AU 682547 B, CN 1133615 A, EP 723011 A4, US 5876983 A, US 5919694 A, JP 3013711 B2, RU 2133772 C1, MX 195842 B, HU 219600 B, CZ 289051 B6, EP 723011 B1, DE 69430919 E, KR 337959 B, SK 283369 B6

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L4: Entry 11 of 11

File: DWPI

Apr 16, 2002

DERWENT-ACC-NO: 1995-106843

DERWENT-WEEK: 200382

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TITLE: Variant of phospho-enol pyruvate carboxylase - not substantially inhibited by aspartic acid, is used for efficient production of amino acids

INVENTOR: IZUI, K; MATSUI, H ; SUGIMOTO, M ; SUZUKI, T ; HIROSHI, M ; MASAKAZU, S ; TOMOKO, S ; TOYAMA, T ; MATSUI, H H

PRIORITY-DATA: 1994JP-0153876 (July 5, 1994), 1993JP-0209775 (August 24, 1993), 1993JP-0209776 (August 24, 1993)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>PH 1199448842 B1</u>	April 16, 2002		000	C12N015/00
<u>WO 9506114 A1</u>	March 2, 1995	J	077	C12N009/88
<u>AU 9480991 A</u>	March 21, 1995		000	C12N009/88
<u>JP 07111890 A</u>	May 2, 1995		016	C12N009/00
<u>JP 08070860 A</u>	March 19, 1996		026	C12N009/00
<u>CZ 9600524 A3</u>	June 12, 1996		000	C12N009/88
<u>EP 723011 A1</u>	July 24, 1996	E	050	C12N009/88
<u>SK 9600204 A3</u>	November 6, 1996		000	C12N009/88
<u>BR 9407625 A</u>	January 21, 1997		000	C12N009/88
<u>AU 682547 B</u>	October 9, 1997		000	C12N009/88
<u>CN 1133615 A</u>	October 16, 1996		000	C12N009/88
<u>EP 723011 A4</u>	January 1, 1997		000	C12N009/88
<u>US 5876983 A</u>	March 2, 1999		000	C12P013/04
<u>US 5919694 A</u>	July 6, 1999		000	C07H021/04
<u>JP 3013711 B2</u>	February 28, 2000		016	C12N009/00
<u>RU 2133772 C1</u>	July 27, 1999		000	C12N009/88
<u>MX 195842 B</u>	April 4, 2000		000	C07H021/004
<u>HU 219600 B</u>	May 28, 2001		000	C12N009/88
<u>CZ 289051 B6</u>	October 17, 2001		000	C12N009/88

<u>EP 723011 B1</u>	July 3, 2002	E	000	C12N009/88
<u>DE 69430919 E</u>	August 8, 2002		000	C12N009/88
<u>KR 337959 B</u>	November 23, 2002		000	C12N009/88
<u>SK 283369 B6</u>	June 3, 2003		000	C12N009/88

C1 , MX 195842 B INT-CL (IPC): C07H 21/004; C07H 21/04; C12N 1/020; C12N 1/20; C12N 1/21; C12N 9/00; C12N 9/18; C12N 9/88; C12N 15/00; C12N 15/03; C12N 15/09; C12N 15/11; C12N 15/52; C12P 13/04; C12P 13/06; C12P 13/08; C12P 13/10; C12P 13/12 ; C12P 13/14; C12P 13/24; C12N 1/21; C12R 1/01; C12N 1/21; C12R 1/185; C12N 9/00; C12R 1/01; C12N 9/00; C12R 1/185; C12P 13/06; C12R 1/185; C12P 13/06; C12R 1/01; C12P 13/08; C12R 1/01; C12P 13/10; C12R 1/185; C12P 13/10; C12R 1/01; C12P 13/12; C12R 1/185; C12P 13/14; C12R 1/185; C12P 13/14 ; C12R 1/01; C12P 13/24; C12R 1/185; C12P 13/24; C12R 1/01; C12N 9/00; C12R 1/185; C12N 9/00; C12R 1/01; C12N 1/21; C12R 1/185; C12N 1/21; C12R 1/01; C12N 15/09; C12R 1/185; C12P 13/06; C12R 1/185; C12P 13/06; C12R 1/01; C12P 13/08; C12R 1/185; C12P 13/08; C12R 1/01; C12N 9/00; C12R 1/01; C12N 15/09; C12R 1/185

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Search](#) | [Print](#) | [Claims](#) | [KWDs](#) | [Drawn Ds](#)

[Clear](#) | [Generate Collection](#) | [Print](#) | [Fwd Refs](#) | [Bkwd Refs](#) | [Generate OACS](#)

Terms	Documents
L3 with inhibit\$	11

Display Format: [-] [Change Format](#)

[Previous Page](#) [Next Page](#) [Go to Doc#](#)